1

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 NPL Characteristics Data Collection Form Mobile Waste Controls - 06/30/94

Record Information

- Site Name: Mobile Waste Controls (as entered in CERCLIS)
- 2. Site CERCLIS Number: TXD988051652
- 3. Site Reviewer: Vicki Harting (Ecology & Environment)
- 4. Date: June 30, 1994
- 5. Site Location: Houston/Harris, Texas (City/County, State)
- 6. Congressional District: 7,8,9,18,22,25
- 7. Site Coordinates: Single

Latitude: 29°37'19.

Longitude: 95°13'59.

Site Description

- 1. Setting: Urban
- 2. Current Owner: Federal
- 3. Current Site Status: Inactive
- 4. Years of Operation: Inactive Site, from and to dates: 1969-1974
- 5. How Initially Identified: Unknown
- 6. Entity Responsible for Waste Generation:
 - Landfill
 - Both
- 7. Site Activities/Waste Deposition:
 - Municipal Landfill
 - Industrial Landfill

9351625

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 NPL Characteristics Data Collection Form Mobile Waste Controls - 06/30/94

PAGE:

2

Waste Description

- 8. Wastes Deposited or Detected Onsite:
 - Organic Chemicals
 - Pesticides/Herbicides
 - Metals
 - Municipal Waste
 - PCBs

Response Actions

- 9. Response/Removal Actions:
 - Other Removal Action Has Occurred

RCRA Information

- 10. For All Active Facilities, RCRA Site Status:
 - Not Applicable

Demographic Information

- 11. Workers Present Onsite: No
- 12. Distance to Nearest Non-Worker Individual: > 10 Feet 1/4 Mile
- 13. Residential Population Within 1 Mile: 1946.0
- 14. Residential Population Within 4 Miles: 50000.0

Water Use Information

- 15. Local Drinking Water Supply Source:
 - Ground Water (within 4 mile distance limit)
 - Surface Water (within 15 mile distance limit)
- 16. Total Population Served by Local Drinking Water Supply Source:

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 NPL Characteristics Data Collection Form Mobile Waste Controls - 06/30/94

- 17. Drinking Water Supply System Type for Local Drinking Water Supply Sources:
 - Municipal (Services over 25 People)
 - Private
- 18. Surface Water Adjacent to/Draining Site:
 - Lake

3

PAGE:

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 HRS DOCUMENTATION RECORD Mobile Waste Controls - 06/30/94

 Site Name: Mobile Waste Controls (as entered in CERCLIS)

2. Site CERCLIS Number: TXD988051652

3. Site Reviewer: Vicki Harting (Ecology & Environment)

4. Date: June 30, 1994

5. Site Location: Houston/Harris, Texas (City/County, State)

6. Congressional District: 7,8,9,18,22,25

7. Site Coordinates: Single

Latitude: 29°37'19. Longitude: 95°13'59.

	Score
Ground Water Migration Pathway Score (Sgw)	21.97
Surface Water Migration Pathway Score (Ssw)	26.24
Soil Exposure Pathway Score (Ss)	0.98
Air Migration Pathway Score (Sa)	17.76

	 	 · 1	"
Site Score			19.29
· .			

NOTE

EPA uses the terms "facility," "site," and "release" interchangeably. The term "facility" is broadly defined in CERCLA to include any area where hazardous substances have "come to be located" (CERCLA Section 109(9)), and the listing process is not intended to define or reflect boundaries of such facilities or releases. Site names, and references to specific parcels or properties, are provided for general identification purposes only. Knowledge regarding the extent of sites will be refined as more information is developed during the RI/FS and even during implementation of the remedy.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 GROUND WATER MIGRATION PATHWAY SCORESHEET Mobile Waste Controls - 06/30/94

GROUND WATER MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release to an Aquifer Aquifer: Chicot		
1. Observed Release 2. Potential to Release 2a. Containment 2b. Net Precipitation 2c. Depth to Aquifer 2d. Travel Time 2e. Potential to Release [lines 2a(2b+2c+2d)] 3. Likelihood of Release	550 10 10 5 35 500 550	550 10 3 5 35 430 550
Waste Characteristics		
4. Toxicity/Mobility 5. Hazardous Waste Quantity 6. Waste Characteristics	* * 100	1.00E+04 100 32
Targets		
7. Nearest Well 8. Population 8a. Level I Concentrations 8b. Level II Concentrations 8c. Potential Contamination 8d. Population (lines 8a+8b+8c) 9. Resources 10. Wellhead Protection Area 11. Targets (lines 7+8d+9+10)	50 ** ** ** 5 20 **	2.00E+01 0.00E+00 0.00E+00 7.30E+01 7.30E+01 5.00E+00 1.03E+02
12. Targets (including overlaying aquifers) 13. Aquifer Score	** 100	1.03E+02 21.97
GROUND WATER MIGRATION PATHWAY SCORE (Sgw)	100	21.97

^{*} Maximum value applies to waste characteristics category.
** Maximum value not applicable.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET Mobile Waste Controls - 06/30/94 PAGE:

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release by Overland Flow 2a. Containment	10	10
2b. Runoff	25	1
2c. Distance to Surface Water	25	25
2d. Potential to Release by Overland	500	260
Flow [lines 2a(2b+2c)]		
3. Potential to Release by Flood		
3a. Containment (Flood)	10	10
3b. Flood Frequency	50	7
3c. Potential to Release by Flood	500	70
(lines 3a x 3b) 4. Potential to Release (lines 2d+3c)	500	330
5. Likelihood of Release	550	330
Waste Characteristics		
waste characteristics		
6. Toxicity/Persistence	*	1.00E+04
7. Hazardous Waste Quantity	*	100
8. Waste Characteristics	100	32
Targets		
9. Nearest Intake	50	0.00E+00
10. Population 10a. Level I Concentrations	**	0.00E+00
10b. Level II Concentrations	**	0.00E+00
10c. Potential Contamination	**	0.00E+00
10d. Population (lines 10a+10b+10c)	**	0.00E+00
11. Resources	5	5.00E+00
12. Targets (lines 9+10d+11)	**	5.00E+00
13. DRINKING WATER THREAT SCORE	100	0.64

^{*} Maximum value applies to waste characteristics category. ** Maximum value not applicable.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET Mobile Waste Controls - 06/30/94 PAGE:

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
14. Likelihood of Release (same as line 5)	550	330
Waste Characteristics		
15. Toxicity/Persistence/Bioaccumulation 16. Hazardous Waste Quantity 17. Waste Characteristics	* * 1000	5.00E+08 100 320
Targets		
18. Food Chain Individual 19. Population 19a. Level I Concentrations 19b. Level II Concentrations 19c. Pot. Human Food Chain Contamination 19d. Population (lines 19a+19b+19c) 20. Targets (lines 18+19d)	50 ** ** ** **	2.00E+01 0.00E+00 0.00E+00 3.00E-03 3.00E-03 2.00E+01
21. HUMAN FOOD CHAIN THREAT SCORE	100	25.60

^{*} Maximum value applies to waste characteristics category. ** Maximum value not applicable.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET Mobile Waste Controls - 06/30/94

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		· · · · · · · · · · · · · · · · · · ·
22. Likelihood of Release (same as line 5)	550	330
Waste Characteristics		
23. Ecosystem Toxicity/Persistence/Bioacc. 24. Hazardous Waste Quantity 25. Waste Characteristics	* * 1000	5.00E+08 100 320
Targets		
26. Sensitive Environments 26a. Level I Concentrations 26b. Level II Concentrations 26c. Potential Contamination 26d. Sensitive Environments (lines 26a+26b+26c) 27. Targets (line 26d)	** ** ** **	0.00E+00 0.00E+00 0.00E+00 0.00E+00
28. ENVIRONMENTAL THREAT SCORE	60	0.00
29. WATERSHED SCORE	100	26.24
30. SW: OVERLAND/FLOOD COMPONENT SCORE (Sof)	100	26.24

^{*} Maximum value applies to waste characteristics category.
** Maximum value not applicable.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 SOIL EXPOSURE PATHWAY SCORESHEET Mobile Waste Controls - 06/30/94

SOIL EXPOSURE PATHWAY Factor Categories & Factors RESIDENT POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
1. Likelihood of Exposure	550	550
Waste Characteristics		
2. Toxicity 3. Hazardous Waste Quantity 4. Waste Characteristics	* * 100	1.00E+04 10 18
Targets		
5. Resident Individual 6. Resident Population	50	0.00E+00
6a. Level I Concentrations	**	0.00E+00
6b. Level II Concentrations	**	0.00E+00
6c. Resident Population (lines 6a+6b)	**	0.00E+00
7. Workers	15	0.00E+00
8. Resources	5	0.00E+00
9. Terrestrial Sensitive Environments	***	0.00E+00
10. Targets (lines 5+6c+7+8+9)	**	0.00E+00
11. RESIDENT POPULATION THREAT SCORE	**	0.00E+00

^{*} Maximum value applies to waste characteristics category. ** Maximum value not applicable.

^{***} No specific maximum value applies, see HRS for details.

7

PAGE:

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 SOIL EXPOSURE PATHWAY SCORESHEET Mobile Waste Controls - 06/30/94

SOIL EXPOSURE PATHWAY Factor Categories & Factors NEARBY POPULATION THREAT	Maximum Value	Value Assigned			
Likelihood of Exposure					
12. Attractiveness/Accessibility 13. Area of Contamination 14. Likelihood of Exposure	100 100 500	7.50E+01 1.00E+02 5.00E+02			
Waste Characteristics					
15. Toxicity 16. Hazardous Waste Quantity 17. Waste Characteristics	* * 100	1.00E+04 10 18			
Targets	Targets				
18. Nearby Individual 19. Population Within 1 Mile 20. Targets (lines 18+19)	1 ** **	1.00E+00 8.00E+00 9.00E+00			
21. NEARBY POPULATION THREAT SCORE	**	8.10E+04			
SOIL EXPOSURE PATHWAY SCORE (Ss)	100	0.98			

^{*} Maximum value applies to waste characteristics category.
** Maximum value not applicable.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 AIR PATHWAY SCORESHEET Mobile Waste Controls - 06/30/94

AIR MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release	,	
1. Observed Release 2. Potential to Release 2a. Gas Potential to Release 2b. Particulate Potential to Release 2c. Potential to Release 3. Likelihood of Release	550 500 500 500 550	0 440 220 440 440
Waste Characteristics		
4. Toxicity/Mobility 5. Hazardous Waste Quantity 6. Waste Characteristics	* * 100	1.00E+04 100 32
Targets		
7. Nearest Individual 8. Population	50	2.00E+01
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations 8c. Potential Contamination	**	0.00E+00 7.90E+01
8d. Population (lines 8a+8b+8c)	**	7.90E+01
9. Resources	5	5.00E+00
10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sens. Environments(lines 10a+10b) 11. Targets (lines 7+8d+9+10c)	*** *** ***	0.00E+00 4.20E-02 4.20E-02 1.04E+02
AIR MIGRATION PATHWAY SCORE (Sa)	100	1.78E+01

^{*} Maximum value applies to waste characteristics category.

** Maximum value not applicable.

*** No specific maximum value applies, see HRS for details.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 WASTE QUANTITY Mobile Waste Controls - 06/30/94

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Landfill

a. Wastestream ID	·
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

Documentation for Constituents:

There is insufficient data to determine the Hazardous Constituent Waste Quantity, Tier A; therefore, Tiers B, C or D will be evaluated for a hazardous waste quantity.

Reference: 1

Documentation for Wastestream Quantity:

There is insufficient data to determine a Hazardous Wastestream Quantity, Tier B; therefore, Tiers C or D will be evaluated for waste quantity.

Reference: 1

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 WASTE QUANTITY Mobile Waste Controls - 06/30/94

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a.	Source ID		Landfill	
b.	Source Type		Landfill	
c.	Secondary Source Type	:	N.A.	
d.	Source Vol.(yd3/gal)	Source Area (ft2)	0.00	937500.00
e.	. Source Volume/Area Value		2.76E+02	
f.	Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)		0.00E+00	
g.	Data Complete?		МО	
h.	Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)		0.00E+00	
i.	Data Complete?		NO	
k.	Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)		2.76E+02	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Chromium	> 2	YES	7.6E+01	mqq
Copper	> 2	YES	5.0E+01	ppm
Iron	> 2	YES	3.1E+01	ppm
PCBs	< 2	NO	1.8E+00	mqq ·

Documentation for Source Type:

The site was operated as a sand quarrying operation and 5 sandpits were located on-site. In 1970, one of the sandpits (Area A) was converted into a landfill, after the City Public Health Department issued a permit. The landfill was capped, but construction of a road transversing the landfill breached the cap in the early 1980's (Ref. 4, pp. 1-2).

Reference: 4

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 WASTE QUANTITY Mobile Waste Controls - 06/30/94

Documentation for Source Hazardous Substances:

Chemical analyses of soil samples collected around the area of the landfill detected the presence of chromium, copper, and aroclor in concentrations three times above the background sample (SO 3) concentrations: Chromium (14.1 ppm); Copper (7.7 ppm); Aroclor-1248 (< .037 ppm); Aroclor-1254 (0.099 ppm).

Chromium (76.5 ppm) and copper (50.3 ppm) were found in Station 80-10 and aroclor-1248 (1.8 ppm) and aroclor-1254 (1.2 ppm) in Station 80 1.

Chromium (0.015 ppm), iron (30.8 ppm) and copper (0.159 ppm) were detected in monitoring well sample GW-7 (Monitoring Well 10) (Ref. 6, pp. 9, 18-19).

The greatest concentration found in either the soil or ground water samples were used to characterize the source.

Reference: 6

Documentation for Source Area:

Measurements for the landfill were estimated from site maps included in the SSI documentation package. The following calculations for area were made:

1250 feet x 750 feet = 937,500 sq. feet

Reference: 1,4,5

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 WASTE QUANTITY Mobile Waste Controls - 06/30/94

1/93 PAGE:

12

3. SITE HAZARDOUS WASTE QUANTITY SUMMARY

No. Source ID	Migration Pathways	Vol. or Area Value (2e)	Constituent or Wastestream Value (2f,2h)	Hazardous Waste Qty. Value (2k)
1 Landfill	GW-SW-SE-A	2.76E+02	0.00E+00	2.76E+02

13

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 WASTE QUANTITY Mobile Waste Controls - 06/30/94

4. PATHWAY HAZARDOUS WASTE QUANTITY AND WASTE CHARACTERISTICS SUMMARY TABLE

Migration Pathway	Contaminant Value	es	HWQVs*	WCVs**
Ground Water	Toxicity/Mobility	1.00E+04	100	32
SW: Overland Flow, DW	Tox./Persistence	1.00E+04	100	32
SW: Overland Flow, HFC	Tox./Persis./Bioacc.	5.00E+08	100	320
SW: Overland Flow, Env	Etox./Persis./Bioacc.	5.00E+08	100	320
SW: GW to SW, DW	Tox./Persistence	1.00E+04	100	32
SW: GW to SW, HFC	Tox./Persis./Bioacc.	5.00E+06	100	100
SW: GW to SW, Env	Etox./Persis./Bioacc.	5.00E+07	100	180
Soil Exposure:Resident	Toxicity	1.00E+04	10	18
Soil Exposure: Nearby	Toxicity	1.00E+04	10	18
Air	Toxicity/Mobility	1.00E+04	100	32

^{*} Hazardous Waste Quantity Factor Values

Note: SW = Surface Water

GW = Ground Water

DW = Drinking Water Threat HFC = Human Food Chain Threat Env = Environmental Threat

^{**} Waste Characteristics Factor Category Values

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 GROUND WATER PATHWAY AQUIFER SUMMARY Mobile Waste Controls - 06/30/94

PAGE: 14

No.	Aquifer ID	Type	Overl N	aying o.	Inter- Connected with	Likelihood of Release	Targets
	Chicot Evangeline	Non K Non K	_		0 1	550 550	1.03E+02 1.03E+02
Con	tainment						
No.	Source ID	HWQ Va	lue	Contai	nment Value		
1	Landfill	2.76E	+02	10			
===		Containment Fa	===== ctor	====== 10			

Documentation for Ground Water Containment, Source Landfill:

Chromium, copper and iron were found in ground water samples taken from the monitoring wells screened in the Chicot Aquifer in concentrations greater than three times the background.

Because there is evidence of hazardous substance migration from the source area and no liner is under the landfill, this source was assigned a containment factor value of 10 according to Table 3-2 of the HRS (Ref. 1; Ref. 4, p. 1; Ref. 6, p. 9).

Reference: 1,4,6

Net Precipitation

Net Precipitation (inches)

12.3

Documentation for Net Precipitation:

The net precipitation for Houston, Texas is 12.3 inches (Ref. 7).

Reference: 7

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Chicot AQUIFER Mobile Waste Controls - 06/30/94

Aquifer: Chicot

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

Documentation for Chicot Aquifer:

The site is underlain by the Chicot aquifer. The Chicot aquifer is composed of the Willis Sand, Bentley and Montgomery Formations, Beaumont Clay, and any overlying Holocene alluvium. In the vicinity of the site, the Chicot aquifer reaches an average thickness of approximately 600 - 1000 feet (Ref. 4, p. 20; Ref.5, p. 11). The Chicot Aquifer is includes all deposits from the land surface to the top of the Evangeline Aquifer (Ref. 14, p. 10). The depth to ground water at the site is approximately 2 feet (Ref. 12, p. 121).

Reference: 4,5,10,12,14

OBSERVED RELEASE

No.	Well ID	Well Type		tance iles)	Level of C	ontaminat	ion
1	GW-7 sample	Monitoring	Well 0	.010	Level II	-	
Wel:	l Hazardous	Substance	Concent.	MCL	Cancer	RFD	Units
1	Chromium		1.5E+01	1.0E+02	0.0E+00	1.8E+02	ppb
1	Copper		1.6E+02	0.0E+00	0.0E+00	0.0E+00	ppb
1	Iron		3.1E+04	0.0E+00	0.0E+00	0.0E+00	ppb
====				======	=======	========	=====

Observed Release Factor

550

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Chicot AQUIFER Mobile Waste Controls - 06/30/94

Documentation for Well GW-7 sample:

GW-7 sample was taken from monitoring well MW-10 constructed inside the disposal pit and provides data which can be used to characterize the ground water directly beneath the disposed material. Chemical analyses of sample GW-7 collected around Area A detected the presence of chromium, copper and iron in concentrations three times above the background concentrations, which qualifies as an observed release (Ref. 6, p. 9).

There is no analytical evidence indicating that drinking water was contaminated (Ref. 5, p. 20).

Reference: 5,6

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Chicot AQUIFER Mobile Waste Controls - 06/30/94

POTENTIAL TO RELEASE

Containment

Containment Factor 10

Net Precipitation

Net Precipitation Factor 3

Depth to Aquifer

A. Depth of Hazardous Substances 8.00 feet

Documentation for Depth of Hazardous Substances:

Chromium, copper and iron were detected in samples collected from MW-10 (GW-7). MW-10 is 25 feet in depth and has a screened interval of 8 to 18 feet. The depth of contamination is at least 8 feet deep (Ref. 6, pp. 5 & 9). The Chicot Aquifer includes all deposits from land surface to the Evangeline Aquifer and is located at the depth of contamination (Ref. 12, p. 121; Ref. 14).

Reference: 6,12,14

B. Depth to Aquifer from Surface 8.00 feet

Documentation for Depth to Aquifer from Surface :

An observed release to ground water has been documented; therefore, potential to release will not be evaluated (Ref. 1, Section 3.1.2; Ref. 6, p. 9). The aquifer to surface depth is approximately 8 feet at the site area (Ref. 14).

Reference: 1,6,14

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Chicot AQUIFER Mobile Waste Controls - 06/30/94

C. Depth to Aquifer (B - A)

0.00

feet

Depth to Aquifer Factor

5

Travel Time

Are All Layers Karst?

NO

Documentation for Karst Layers:

The site is not located on karst terrain.

Reference: 12,13

Thickness of Layer(s) with Lowest Conductivity 0.00

feet

Documentation for Thickness of Layers with Lowest Conductivity:

An observed release to ground water has been documented; therefore, potential to release will not be evaluated (Ref. 1, Section 3.1.2).

Reference: 1

Hydraulic Conductivity (cm/sec)

0.0E-00

Documentation for Hydraulic Conductivity:

An observed release to ground water has been documented; therefore, potential to release will not be evaluated (Ref. 1, Section 3.1.2).

Reference: 1

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 19 GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Chicot AQUIFER Mobile Waste Controls - 06/30/94

Travel Time Factor	35
Dotoutiol 4	- Delegge Footes 420

Potential to Release Factor 4

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Evangeline AQUIFER Mobile Waste Controls - 06/30/94

Aquifer: Evangeline

Type of Aquifer: Non Karst

Overlaying Aquifer: 1

Interconnected with: 1

Documentation for Evangeline Aquifer:

The Evangeline Aquifer underlies and interconnects the Chicot Aquifer (Ref.10). The upper 100 ft at the site is composed of lintels of red, tan, and light gray sand, silty and clay sand, sandy clay and clay (Ref. 4, p. 19).

The interconnection of the Upper Chicot, Lower Chicot and Evangeline Aquifers is seen in the corresponding water-level changes in the 1977-91 and 1990-1991 U.S.G.S. Survey (Ref. 10).

Reference: 4,10

OBSERVED RELEASE

No. Well ID Well Type (miles) Level of Contamination

- N/A and/or data not specified

Observed Release Factor

0

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Evangeline AQUIFER Mobile Waste Controls - 06/30/94

POTENTIAL TO RELEASE

Containment

Containment Factor

10

Net Precipitation

Net Precipitation Factor

3

Depth to Aquifer

A. Depth of Hazardous Substances

8.00

feet

Documentation for Depth of Hazardous Substances:

Arsenic and manganese were detected in samples collected form MW-2. MW-2 is 25 feet in depth and has a screened interval of 8 to 18 feet. The depth of contamination is at least 8 feet deep (Ref. 6, p. 5 & 9). The Evangeline Aquifer is located at approximately 600 -1000 feet (Ref. 4, p. 20).

Reference: 4,6,12,14

B. Depth to Aquifer from Surface

600.00 feet

Documentation for Depth to Aquifer from Surface :

The Evangeline Aquifer lies underneath the Chicot Aquifer (Ref. 4, p. 20; Ref. 10). The lower Chicot is found at depths of 600 to 1000 feet (Ref. 4, p. 20).

Reference: 4,10

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Evangeline AQUIFER Mobile Waste Controls - 06/30/94

C. Depth to Aquifer (B - A)	592.00	feet
Depth to Aquifer Factor	1	
Travel Time		
Are All Layers Karst?	NO	
Thickness of Layer(s) with Lowest Conductivity	0.00	feet
Hydraulic Conductivity (cm/sec)	0.0E-00	
Travel Time Factor	5	
Potential to Release Factor	======== 90	

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 GROUND WATER PATHWAY WASTE CHARACTERISTICS Mobile Waste Controls - 06/30/94

Source: 1 Landfill

Source Hazardous Waste Quantity Value: 275.74

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value	
Chromium	10000	1.00E-02	1.00E+02	
Copper	100	1.00E-02	1.00E+00	
Iron	100	1.00E-02	1.00E+00	
PCBs	10000	2.00E-07	2.00E-03	

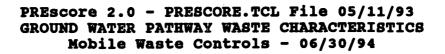
PAGE: 23

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 GROUND WATER PATHWAY WASTE CHARACTERISTICS Mobile Waste Controls - 06/30/94

Hazardous Substances Found in an Observed Release

Well No.	Observed Release Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
1	Chromium	10000	1.00E+00	1.00E+04
1	Copper	100	1.00E+00	1.00E+02
1	Iron	100	1.00E+00	1.00E+02

PAGE: 24



25

Toxicity/Mobility Value from Source Hazardous Substances:	1.00E+02
Toxicity/Mobility Value from Observed Release Hazardous Substances:	1.00E+04
Toxicity/Mobility Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	2.76E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	32

Population by Well

			Distance	Level of
No.	Well ID	Sample Type	(miles)	Contamination Population

- N/A and/or data not specified

Level I Population Factor: 0.00

Level II Population Factor: 0.00

PAGE: 26

Potential Contamination by Distance Category

Distance Category (miles)	Population	Value
> 0 to 1/4	5.0	4.00E-01
> 1/4 to 1/2	17.0	1.10E+00
1/2 to 1	20.0	5.00E-01
> 1 to 2	168.0	3.00E+00
> 2 to 3	5500.0	6.78E+01
> 3 to 4	0.0	0.00E+00

Potential Contamination Factor:

73.000

Documentation for Target Population > 0 to 1/4 mile Distance Category:

Two private drinking water wells screened in the Chicot Aquifer are located within this distance category. Approximately five people obtain water from private drinking water wells located in this distance category (Ref. 5, pp. 17-20). No public drinking water wells are found within this target distance category (Ref. 11). There is no analytical evidence that any drinking water wells were contaminated (Ref. 5, p. 17). Population was provided in the SSI.

Reference: 5,11

Documentation for Target Population > 1/4 to 1/2 mile Distance Category:

There are seven private wells within this distance category. Approximately 17 people obtain drinking water from wells screened within the Chicot Aquifer located in this distance category (Ref. 5, pp. 5, 17-20). No public drinking water wells are located in this target category (Ref. 11).

Reference: 5,11

Documentation for Target Population > 1/2 to 1 mile Distance Category:

There are seven private drinking water wells screened within the Chicot Aquifer serving an estimated 17 individuals. One industrial well serves the employees of Houston Lighting and Power Company within this distance category. Approximately 3 individuals obtain water from the industrial well at Houston Lighting and Power Company. A total of 20 individuals obtain water from wells located in the 1/2 to 1-mile target distance (Ref. 5, pp. 5, 17-20). No public supply wells are located in this distance category (Ref. 11).

Reference: 5,11

Documentation for Target Population > 1 to 2 miles Distance Category:

70 private wells and eight industrial wells are located in this distance category. It is not known if the industrial wells serve as a drinking water supply; however, it will be assumed they do provide drinking water and are screened within the Chicot Aquifer. Approximately 168 people obtain drinking water from wells screened within the Chicot Aquifer in this distance category (Ref. 5, pp. 5, 17-20). No municipal drinking water wells are located within this target distance limit (Ref. 11).

Reference: 5

Documentation for Target Population > 2 to 3 miles Distance Category:

The City of Houston Water Production stated that the only public drinking water well within 4-miles of the site is the Hobby stand-by well located between 2 and 3 miles of the site. The Hobby stand-by well is screened in the Chicot Aquifer. The Hobby well serves approximately 5,500 individuals.

Reference: 11,15

PAGE:

29

Documentation for Target Population > 3 to 4 miles Distance Category:

No private or public drinking water wells are located within the 3 to 4-mile radius of the site.

Reference: 5,11

Nearest Well

Level of Contamination: Potential

Distance in miles: 0.25

Nearest Well Factor: 2.00E+01

Documentation for Nearest Well:

A private drinking water well which is screened within the Chicot Aquifer is within 0.25 miles of the site (Ref. 5, p. 5, 17-20).

Reference: 5

Resources

Resource Use: YES

Resource Factor: 5.00E+00

Documentation for Resources:

Irrigation wells been identified within 1/4 mile of the site (Ref. 5, pp. 5, 13-20). It is assumed they are screened within the Chicot Aquifer.

Reference: 5

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 GROUND WATER PATHWAY TARGETS FOR AQUIFER Chicot

PAGE:

30

Mobile Waste Controls - 06/30/94

Wellhead Protection Area

There is a designated wellhead protection area Wellhead Protection Area Factor: 5.00E+00

Documentation for Wellhead Protection Area:

One Wellhead Protection Area is within a four-mile radius of the site, the City of Houston Sagemont #2 well located approximately two miles southeast of the site (Ref. 4, p. 20; Ref. 5, p. 17).

Reference: 4,5

Population by Well

No. Well ID Sample Type Distance Level of (miles) Contamination Population

- N/A and/or data not specified

Level I Population Factor: 0.00

Level II Population Factor: 0.00

PAGE: 31

32

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 GROUND WATER PATHWAY TARGETS FOR AQUIFER Evangeline Mobile Waste Controls - 06/30/94

Potential Contamination by Distance Category

Distance Category (miles)	Population	Value
> 0 to 1/4	0.0	0.00E+00
> 1/4 to 1/2	0.0	0.00E+00
> 1/2 to 1	0.0	0.00E+00
> 1 to 2	0.0	0.00E+00
> 2 to 3	0.0	0.00E+00
> 3 to 4	0.0	0.00E+00

Potential Contamination Factor:

0.000

Nearest Well

Level of Contamination: N.A.

Nearest Well Factor: 0.00E+00

Documentation for Nearest Well:

No private or public drinking water wells within this TDL are screened within the Evangeline Aquifer (Ref. 5, pp. 17-20; Ref. 11; Ref. 15).

Reference: 5,11,15

Resources

Resource Use: NO

Resource Factor: 0.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 GROUND WATER PATHWAY TARGETS FOR AQUIFER Evangeline Mobile Waste Controls - 06/30/94

Documentation for Resources:

No public or private drinking water wells within a 4-mile radius were identified within the Evangeline Aquifer (Ref. 5, p. 17-20; Ref. 11; Ref 15).

Reference: 5,11,15

Wellhead Protection Area

There is a designated wellhead protection area

Wellhead Protection Area Factor: 5.00E+00

Documentation for Wellhead Protection Area:

One Wellhead Protection Area is located within the 4-mile radius of the site. The City of Houston Sagemont #2 well is located approximately 2 miles southeast of the site.

Reference: 4,5

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 SURFACE WATER PATHWAY SEGMENT SUMMARY Mobile Waste Controls - 06/30/94

No. Segment ID	Segment Type	Water Type	Start Point (mi)	End Point (mi)	Average Flow (cfs)
1 Lake Westwind	Lake	Fresh	0.00	15.00	1
2	River	Fresh	15.00	15.00	0

Documentation for segment: Lake Westwind:

Surface drainage in the vicinity of the site is generally to the southwest, in the direction of the small lakes formed from excavated sand pits. A potential surface water pathway exists that would allow surface water to drain across and through the fairly thin, and in some places, breached landfill cap material into the nearby Lake Westwind. The PPE is approximately 50 feet from the embankment of Lake Westwind.

Lake Westwind, with a flow rate of < 10 cfs.

It should be noted that two other lakes, Windmill Lake and Bass Lake, are approximately 250 and 125 feet, respectively, from the site. These lakes were not included in this watershed description because they are in separate watersheds.

Reference: 5

PAGE: 34

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 35 SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE Mobile Waste Controls - 06/30/94

OBSERVED RELEASE

No. Sample ID

(miles)

Sample Type Distance Level of Contamination

DW

HFC

Env

- N/A and/or data not specified

Observed Release Factor

Documentation for Observed Release, Sample none:

No samples were collected which would indicate a release to the sensitive environments (Ref. 6, p. 15-16).

Reference: 4, 6

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 36 SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE Mobile Waste Controls - 06/30/94

POTENTIAL TO RELEASE

Potential to Release by Overland Flow

Containment

No.	Source ID	HWQ Value	Containment Value
1	Landfill	2.76E+02	10
===:			

Containment Factor:

10

Documentation for Overland Flow Containment, Source Landfill:

As hazardous substance migration from the source area is evident, this source was assigned a containment factor value of 10 according to Table 4-2 of the HRS (Ref. 1; Ref. 4, p. 1). The landfill cover is kept saturated in low-lying areas along Windmill Lakes Boulevard by what appears to be an in-ground sprinkler system. Standing water and marshlike vegetation were apparent in low areas adjacent to the boulevard. Surface water drainage pathways are found across the landfill area (Ref. 5, p. 21).

Reference: 1,4,5

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 37 SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE Mobile Waste Controls - 06/30/94

Distance to Surface Wate	Distance	to	Surface	Water
--------------------------	----------	----	---------	-------

Distance to Surface Water:

50.0 feet

Distance to Surface Water Factor:

25

Documentation for Distance to Surface Water:

The landfill is within 50 feet of Lake Westwind, the nearest perennial surface water body. Surface drainage from the site flows south and southwest into the lake. Storm water runoff enters the lake adjacent to the boat area (Ref. 5, pp. 4 & 21).

Reference: 5

Runoff

A. Drainage Area:

45.0 acres

Documentation for Drainage Area:

A drainage area of less than 50 acres was estimated from the map of site in Ref. 5 (entire site area is approximately 21.5 acres). Surface drainage from site flows southwest into Lake Westwind bordering the southwestern edge of the site. Surface water drainage may also occur southwestward along Windmill Landing Boulevard toward the Harris County drainage ditch (Ref. 5, pp. 21 & 23).

Reference: 5

B. 2-year, 24-hour Rainfall:

5.5 inches

		PRESCO	ore 2.0 -	PRESCORE. TO	CL File 05	/11/93	PA	GE:	38
SURFACE	WATER	PATHWAY	OVERLAND	FLOW/FLOOD	COMPONENT	LIKELIHOOD	OF	RELEA	SE
		1	Mobile Was	ste Controls	s - 06/30/9	94			

Documentation	for	Rain	fall:
---------------	-----	------	-------

The 2-year, 24-hour rainfall is 5.5 inches (Ref. 5, p. 21).

Reference: 5

C. Soil Group: A Coarse-textured soils with high infiltration rates

Documentation for Soil Group:

Course textured soils and sands with high infiltration rates (Ref. 4, p. 17).

Reference: 4

Runoff Factor: 1

Potential to Release by Overland Flow Factor: 260

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 39 SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE Mobile Waste Controls - 06/30/94

Potential to Release by Flood

No.	Source ID	HWQ Value	Flood Containment Value	Flood Frequency Value	Potential to Release by Flood
1	Landfill	2.76E+02	10	7	70
===	*******				:::::::::::::::::::::::::::::::::::::::

Potential to Release by Flood Factor: 70

Documentation for Flood Containment, Source Landfill:

No documentation was available to support that containment at the source is designed, constructed, operated, and maintained to prevent hazardous substance migration during a flood (Ref. 4, pp. 1 & 20).

Reference: 4

Documentation for Flood Frequency, Source Landfill:

The site is situated in an area of > 500 year floodplain (Ref. 4, p. 20).

Reference: 4

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 40 SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS Mobile Waste Controls - 06/30/94

Source: 1 Landfill

Source Hazardous Waste Quantity Value: 275.74

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Chromium	10000	1.00E+00	1.00E+04
Copper	0	1.00E+00	0.00E+00
Iron	0	1.00E+00	0.00E+00
PCBs	10000	1.00E+00	1.00E+04

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 41 8W PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS Mobile Waste Controls - 06/30/94

Hazardous Substances Found in an Observed Release

Sample Observed Release No. Hazardous Substance Toxicity Value Persistence Value Toxicity/ Persistence

Value

⁻ N/A and/or data not specified

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 42 SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS Mobile Waste Controls - 06/30/94

Toxicity/Persistence Value from Source Hazardous Substances	1.00E+04
Toxicity/Persistence Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Persistence Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	2.76E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	32

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 43 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS Mobile Waste Controls - 06/30/94

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS Mobile Waste Controls - 06/30/94

Level I Concentrations

Distance Along the In-water Segment from the

Intake

Probable Point of Entry (miles) Population

~ N/A and/or data not specified

Population Served by Level I Intakes:

0.0

Level I Population Factor: 0.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 45 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS Mobile Waste Controls - 06/30/94

Level II Concentrations

Distance Along the In-water Segment from the

Intake

Probable Point of Entry (miles) Population

- N/A and/or data not specified

Population Served by Level II Intakes:

0.0

Level II Population Factor: 0.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 46
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Mobile Waste Controls - 06/30/94

Potential Contamination

Intake ID

Average Annual Flow (cfs)

Population Served

- N/A and/or data not specified

Documentation for Intake:

The surface water body evaluated is Lake Westwind. The lake is self contained and there are no streams flowing out of the lake. There is no drinking water intake within the lake or the other two lakes surrounding the site.

Reference:

Type of Surface Water Body

Total Population

Potential Contamination Factor:

Dilution-Weighted Population

- N/A and/or data not specified

Dilution-Weighted Population Served by Potentially Contaminated Intakes:

0.0

0.0

Nearest Intake

Location of Nearest Drinking Water Intake: N.A.

Nearest Intake Factor:

0.00

Resources

Resource Use: YES

Resource Value: 5.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 47
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Mobile Waste Controls - 06/30/94

Documentation for Resources:

Lake Westwind provides a fishery habitat, and local residents routinely fish from this lake and the other two lakes surrounding the landfill (Ref. 5, p. 25).

Reference: 5

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 48 SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS Mobile Waste Controls - 06/30/94

Source: 1 Landfill

Source Hazardous Waste Quantity Value: 275.74

Hazardous Substance	Toxicity Value	Persistence Value	Bio- accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Chromium	10000	1.00E+00	5.00E+00	5.00E+04
Copper	0	1.00E+00	5.00E+04	0.00E+00
Iron	0	1.00E+00	5.00E-01	0.00E+00
PCBs	10000	1.00E+00	5.00E+04	5.00E+08

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 49 SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS Mobile Waste Controls - 06/30/94

Hazardous Substances Found in an Observed Release

Sample Observed Release No. Hazardous Substance Toxicity Persistence Bio-Value Value accum.

Toxicity/
Persistence/
Bioaccum.

Value Value

⁻ N/A and/or data not specified

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 50 SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS Mobile Waste Controls - 06/30/94

Toxicity/Persistence/Bioaccumulation Value from Source Hazardous Substances:	5.00E+08
Toxicity/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Persistence/Bioaccumulation Factor:	5.00E+08
Sum of Source Hazardous Waste Quantity Values:	2.76E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	320

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 51 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS Mobile Waste Controls - 06/30/94

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 52 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS Mobile Waste Controls - 06/30/94

Level I Concentrations

Fishery

Annual Production (pounds)

Human Food Chain Population Value

- N/A and/or data not specified

Sum of Human Food Chain Population Values: 0.00E+00

Level I Concentrations Factor: 0.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 53 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS Mobile Waste Controls - 06/30/94

Level II Concentrations

Fishery

Annual Production (pounds)

Human Food Chain Population Value

- N/A and/or data not specified

Sum of Human Food Chain Population Values: 0.00E+00

Level II Concentrations Factor: 0.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 54 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS Mobile Waste Controls - 06/30/94

Potential Contamination

Fi	shery	Annnual Production (pounds)	Type of Surface Water Body	Average Annual Flow (cfs)		Dilution Weight (Di)	Pi*Di
1	Lake Westwind	99.0	Lake	1	0.0	1.00E+00	3.00E-02

Sum of (Pi*Di): 3.00E-02

Potential Human Food Chain Contamination Factor: 3.00E-03

Documentation for Lake Westwind Fishery:

Residents fish in Lake Westwind, as well as the other two lakes surrounding the landfill (Ref. 5, p. 25).

An annual fishery production of 0 to 100 pounds was assumed since no production data for the lake was available.

An average annual flow of less than 10 cfs was assumed (HRS Table 4-13).

Reference: 1,5

Food Chain Individual

Location of Nearest Fishery: Lake Westwind

Distance from the Probable Point of Entry: 0.00 miles

Type of Surface Water Body: Lake

Dilution Weight: 1.0000000

Level of Contamination: Potential

Food Chain Individual Factor: 20.00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 55 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS Mobile Waste Controls - 06/30/94

Documentation for Lake Westwind:

Surface drainage in the vicinity of the site is generally to the southwest, in the direction of the small lakes formed from excavated sand pits. A potential surface water pathway exists that would allow surface water to drain across and through the fairly thin, and in some places, breached landfill cap material into the nearby Lake Westwind. The PPE is approximately 50 feet from the embankment of Lake Westwind.

Lake Westwind, with a flow rate of < 10 cfs.

It should be noted that two other lakes, Windmill Lake and Bass Lake, are approximately 250 and 125 feet, respectively, from the site. These lakes were not included in this watershed description because they are in separate watersheds.

Reference: 5

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 56 SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS Mobile Waste Controls - 06/30/94

Source: 1 Landfill

Source Hazardous Waste Quantity Value: 275.74

Hazardous Substance	Eco- toxicity Value	Persistence Value	Bio- accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Chromium	10000	1.00E+00	5.00E+00	5.00E+04
Copper	100	1.00E+00	5.00E+04	5.00E+06
Iron	10	1.00E+00	5.00E-01	5.00E+00
PCBs	10000	1.00E+00	5.00E+04	5.00E+08

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 57 SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS Mobile Waste Controls - 06/30/94

Hazardous Substances Found in an Observed Release

Sample Observed Release No. Hazardous Substance Eco-Value

toxicity Persistence Bio-Value accum.

Ecotoxicity/ Persistence/ Bioaccum.

Value Value

⁻ N/A and/or data not specified

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 58 SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS Mobile Waste Controls - 06/30/94

Ecotoxicity/Persistence/Bioaccummulation Value from Source Hazardous Substances:	5.00E+08
Ecotoxicity/Persistence/Bioaccummulation Value from Observed Release Hazardous Substances:	0.00E+00
Ecotoxicity/Persistence/Bioaccummulation Factor:	5.00E+08
Sum of Source Hazardous Waste Quantity Values:	2.76E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	320

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 59 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS Mobile Waste Controls - 06/30/94

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 60 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS Mobile Waste Controls - 06/30/94

Level I Concentrations

Sensitive Environment	Distance from Point of Entry Sensitive Env.	to	Sensitive Environment Value
- N/A and/or data not	specified		
Sum of Sensitive Environ	ments Values:		0
Wetlands			
Poi	tance from Probable nt of Entry to land (miles)	Wetlar Fronta	nds age (miles)
- N/A and/or data not	specified		
Total Wetlands Frontage:	0.00 Miles	Total Wetlands	s Value: 0
Sum of Sensitive Environ	ments Value + Wetla		E+00

Level I Concentrations Factor: 0.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 61 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS Mobile Waste Controls - 06/30/94

Level II Concentrations

Sensitive Environment	Distance from Point of Entry Sensitive Env.	to Environment
- N/A and/or data n	ot specified	
Sum of Sensitive Envir	onments Values:	0
Wetlands		
P	istance from Probable oint of Entry to etland (miles)	Wetlands Frontage (miles)
- N/A and/or data n	ot specified	
Total Wetlands Frontag	e: 0.00 Miles	Total Wetlands Value: 0
Sum of Sensitive Envir	onments Value + Wetla	nds Value: 0.00E+00

Level II Concentrations Factor: 0.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 62 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS Mobile Waste Controls - 06/30/94

Potential Contamination

Sensitive Environments

Type of Surface Water Body

Sensitive Environment

Sensitive Environment Value

Wetlands

Type of Surface Water Body

Sensitive Environment

Wetlands Frontage

Wetlands Value

- N/A and/or data not specified

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 63 8W PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS Mobile Waste Controls - 06/30/94

Sum of

Sum of Sens. Wetland Environment Frontage Weight

Dilution

Values(Sj)

Values(Wj) (Dj)

Dj(Wj+Sj)

- N/A and/or data not specified

Type of Surface

Water Body

Sum of Dj(Wj+Sj):

0.00E+00

Sum of Dj(Wj+Sj)/10:

0.00E+00

Potential Contamination Sensitive Environment Factor: 0.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 64 SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT LIKELIHOOD OF EXPOSURE Mobile Waste Controls - 06/30/94

Likelihood of Exposure

No.	Source ID	Level of	Contamination
1	Landfill		Level I

Likelihood of Exposure Factor: 550

Documentation for Area of Contamination, Source Landfill:

Chromium, copper, and PCBs were detected in soil samples collected from the landfill. The area of the landfill (937,500 sq. feet) was used as the area of contamination since a soil sample established observed contamination in the landfill. The entire area of the landfill was considered the area of observed contamination.

Reference: 1,5

Sour	ce Hazardous Substance	Depth (ft.)	Concent.	Cancer	RFD	Units
1	Chromium	> 2	7.6E+01	0.0E+00	0.0E+00	ppm
1	Copper	> 2	5.0E+01	0.0E+00	0.0E+00	ppm
1	Iron	> 2	3.1E+01	0.0E+00	0.0E+00	ppm
1	PCBs	< 2	1.8E+00	7.6E-02	0.0E+00	ppm

Documentation for Source Landfill, Contaminants:

Chemical analyses of soil samples collected around the area of the landfill detected the presence of chromium, copper, and aroclor in concentrations three times above the background sample (SO 3) concentrations: Chromium (14.1 ppm); Copper (7.7 ppm); Aroclor-1248 (< .037 ppm); Aroclor-1254 (0.099 ppm).

Chromium (76.5 ppm) and copper (50.3 ppm) were found in Station SO-10 and aroclor-1248 (1.8 ppm) and aroclor-1254 (1.2 ppm) in Station SO 1.

Chromium (0.015 ppm), iron (30.8 ppm) and copper (0.159 ppm) were detected in monitoring well sample GW-7 (Monitoring Well 10) (Ref.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 65 SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT LIKELIHOOD OF EXPOSURE Mobile Waste Controls - 06/30/94

6, pp. 9, 18-19).

The greatest concentration found in either the soil or ground water samples were used to characterize the source.

Reference: 6

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 66 SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS Mobile Waste Controls - 06/30/94

Source: 1 Landfill

Source Hazardous Waste Quantity Value: 27.57

Hazardous Substance Toxicity Value

PCBs

10000

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 67 SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS Mobile Waste Controls - 06/30/94

Toxicity Factor:	1.00E+0
Sum of Source Hazardous Waste Quantity Values:	2.76E+0
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	18

68

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT TARGETS Mobile Waste Controls - 06/30/94

Level I Population: 0.0 Value: 0.00

Level II Population: 0.0 Value: 0.00

Documentation for Level II Population:

There are 718 resident individuals (299 units from 3 apartment complexes) living within 200 feet of the site, but the apartments are not within the property boundary of the site and cannot be considered as residential population (Ref. 5, p. 26).

Reference: 5

Workers: 0.0 Value: 0.00

Documentation for Workers:

No workers at the site or at nearby facilities in areas of observed contamination. The site is inactive (Ref. 5, p. 25).

Reference: 5

Resident Individual: Potentia Value: 0.00

Resources: NO Value: 0.00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 69 SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT TARGETS Mobile Waste Controls - 06/30/94

Documentation for Resources:

No resources are present on-site.

Reference: 4,5

Terrestial Sensitive Environment \		
- N/A and/or data not specified		

Terrestrial Sensitive Environments Factor:	0.00	

Documentation for Terrestrial Environment:

It is not known whether any terrestrial sensitive environments exist on-site.

Reference:

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT LIKELIHOOD OF EXPOSURE Mobile Waste Controls - 06/30/94

Likelihood of Exposure

No.	Source ID	Level of Contamination	Attractiveness/ Accessibility	Area of Contam. (sq. feet)
1	Landfill	Level I	75	937500
Sum	of Eligible A	reness/Accessibility Areas Of Contamination Ation Value: 100	Value: 75 on (sq. feet):	937500

Likelihood of Exposure Factor Category: 500

Documentation for Attractiveness/Accessibility, Source Landfill:

A fence is around the site, but it is breached and provides no security. Residents have been seen boating and fishing on-site. road transects the landfill (Ref. 4, p. 1).

Reference: 4

Sour No.	ce Hazardous Substance	Depth (ft.)	Concent.	Cancer	RFD	Units
1	Chromium	> 2	7.6E+01	0.0E+00	0.0E+00	ppm
1	Copper	> 2	5.0E+01	0.0E+00	0.0E+00	ppm
1	Iron	> 2	3.1E+01	0.0E+00	0.0E+00	ppm
1	PCBs	< 2	1.8E+00	7.6E-02	0.0E+00	ppm

Documentation for Source Landfill, Contaminants:

Chemical analyses of soil samples collected around the area of the landfill detected the presence of chromium, copper, and aroclor in concentrations three times above the background sample (SO 3) concentrations: Chromium (14.1 ppm); Copper (7.7 ppm); Aroclor-1248 (< .037 ppm); Aroclor-1254 (0.099 ppm).

Chromium (76.5 ppm) and copper (50.3 ppm) were found in Station SO-10 and aroclor-1248 (1.8 ppm) and aroclor-1254 (1.2 ppm) in Station 80 1.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 71
SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT LIKELIHOOD OF EXPOSURE
Mobile Waste Controls - 06/30/94

Chromium (0.015 ppm), iron (30.8 ppm) and copper (0.159 ppm) were detected in monitoring well sample GW-7 (Monitoring Well 10) (Ref. 6, pp. 9, 18-19).

The greatest concentration found in either the soil or ground water samples were used to characterize the source.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 72 SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS Mobile Waste Controls - 06/30/94

Source: 1 Landfill

Source Hazardous Waste Quantity Value: 27.57

Hazardous Substance Toxicity Value

PCBs

10000

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 73 SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS Mobile Waste Controls - 06/30/94

Toxicity Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	2.76E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	18

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT TARGETS Mobile Waste Controls - 06/30/94

Nearby Individual

Population within 1/4 mile: 1946.0

Nearby Individual Value: 1.0

Population Within 1 Mile

Travel Distance Category	Number of People	Value	
> 0 to 1/4 mile	1946.0	4.1	
> 1/4 to 1/2 mile	499.0	0.7	
> 1/2 to 1 mile	8994.0	3.3	

Population Within 1 Mile Factor: 8.0

Documentation for Population > 0 to 1/4 mile Distance Category:

According to the PA, the approximate total population is 1,946. The population was derived from the following data (Ref. 4, p. 23):

Windmill Landing 259 units x 2.4 people/unit = 622 people The Point 160 units x 2.4 people/unit = 384 people 392 units x 2.4 people/unit = 940 people The Cove

Reference: 4

Documentation for Population > 1/4 to 1/2 mile Distance Category:

According to the Geographical Exposure Modeling System (TGEMS) 499 people live in the 1/4 to 1/2-mile target radius of the site (Ref. 8).

75

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT TARGETS Mobile Waste Controls - 06/30/94

Documentation for Population > 1/2 to 1 mile Distance Category:

According to TGEMS, 8994 people live in the 1/2 to 1-mile target radius (Ref. 8).

PAGE: 76

OBSERVED RELEASE

No. Sample ID	Distance (miles)	Level o	f Contam	ination		
- N/A and/or dat	ta not specified					
		=======			:=====	:=====
		Observed	Release	Factor:	0	

Documentation for Sample:

No analytical sampling data was conducted.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 AIR PATHWAY LIKELIHOOD OF RELEASE Mobile Waste Controls - 06/30/94

Gas Migration Potential

GAS POTENTIAL TO RELEASE

Source ID	Source Type	Gas Contain Value (A)	Gas Source .Type Value (B)	Potent	Sum	Gas Potential to Rel. Value A(B+C)
Landfill	Landfill	10	33	11	44	440

Gas Potential to Release Factor:

440

Documentation for Gas Containment, Source Landfill:

Because the cover on the landfill has been breached, the source was assigned a gas containment factor value of 10 according to Table 6-3 of the HRS; the breached cover showns evidence of waste exposure, leakage, air emissions, and erosion (Ref. 1; Ref. 4, p. 1). When Windmill Lakes Boulevard was constructed across the landfill site during construction of the Windmill Lakes subdivision, the landfill cap was disturbed by surveying and construction, resulting in exposure of waste material, which was subsequently covered with additional soil. The thickness of the final cover of the capped disposal area varies from less than 6 inches over the large, central portions of the area, to over 6 feet in areas along the north side of the closed landfill. Exposed waste materials were observed in numerous bare soil areas, apparently where the landfill cap is thin (Ref. 5, p. 6-8).

Reference: 1,4,5

Documentation for Source Type, Source Landfill:

The site was operated as a sand quarrying operation and 5 sandpits were located on-site. In 1970, one of the sandpits (Area A) was converted into a landfill, after the City Public Health Department issued a permit. The landfill was capped, but construction of a road transversing the landfill breached the cap in the early 1980's (Ref.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 AIR PATHWAY LIKELIHOOD OF RELEASE

Mobile Waste Controls - 06/30/94

4, pp. 1-2).

Reference: 4

PAGE: 78

PAGE: 79

11

Source: Landfill

Gaseous Hazardous Substance Hazardous Substance Gas Migration Potential Value

PCBs 11

Average of Gas Migration Potential Value for 3 Hazardous Substances: 11.000

Gas Migration Potential Value From Table 6-7:

Particulate Migration Potential

PARTICULATE POTENTIAL TO RELEASE

Source ID	Source Type	Partic. Contain Value (A)	Source .Type	Potent	Sum	Partic. Potential to Rel. Value A(B+C)
Landfill	Landfill	10	22	0	22	220

Particulate Potential to Release Factor:

220

PAGE:

80

Documentation for Particulate Containment, Source Landfill:

Because the cover on the landfill has been breached, the source was assigned a particulate containment factor value of 10 according to Table 6-9 of the HRS (Ref. 1; Ref. 4, p. 10). When Windmill Lakes Boulevard was constructed across the landfill site during construction of the Windmill Lakes subdivision, the landfill cap was disturbed by surveying and construction, resulting in exposure of waste material, which was subsequently covered with additional soil. The thickness of the final cover of the capped disposal area varies from less than 6 inches over the large, central portions of the area to over 6 feet in areas along the north side of the closed landfill. Exposed waste materials were observed in numerous bare soil areas, apparently where the landfill cap is thin (Ref. 5, p. 6-8).

Reference: 1,4,5

Documentation for Source Type, Source Landfill:

The site was operated as a sand quarrying operation and 5 sandpits were located on-site. In 1970, one of the sandpits (Area A) was converted into a landfill, after the City Public Health Department issued a permit. The landfill was capped, but construction of a road transversing the landfill breached the cap in the early 1980's (Ref.

PAGE: 81

4, pp. 1-2).

le 05/11/93 PAGE: 82

Source: Landfill

Particulate Hazardous Substance

Chromium Copper Iron

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 AIR PATHWAY WASTE CHARACTERISTICS Mobile Waste Controls - 06/30/94

Source: 1 Landfill

Source Hazardous Waste Quantity Value: 275.74

Hazardous Substance	Toxicity Value	Gas Mobility Value	Particulate Mobility Value	Toxicity/ Mobility Value
Chromium	10000	NA	2.00E-05	2.00E-01
Copper	100	NA	2.00E-05	2.00E-03
Iron	100	NA	2.00E-05	2.00E-03
PCBs	10000	1.00E+00	NA	1.00E+04

PAGE: 83

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 AIR PATHWAY WASTE CHARACTERISTICS Mobile Waste Controls - 06/30/94

PAGE: 84

Hazardous Substances Found in an Observed Release

Sample Observed Release
ID Hazardous Substance

Particulate Toxicity/ Mobility Value

Gas Toxicity/ Mobility Value

⁻ N/A and/or data not specified



85

Toxicity/Mobility Value from Source Hazardous Substances:	1.00E+04
Toxicity/Mobility Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	2.76E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	32

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 AIR PATHWAY TARGETS

Mobile Waste Controls - 06/30/94

Actual Contamination

Distance No. Sample ID (miles)

Level of Contamination

PAGE:

86

- N/A and/or data not specified

Potential Contamination

Distance Categories Subject to Potential Contamination	Population	Value	
Onsite	0.0	0.0000	
> 0 to 1/4 mile	1947.0	40.8000	
> 1/4 to 1/2 mile	499.0	2.8000	
> 1/2 to 1 mile	8994.0	8.3000	
> 1 to 2 miles	29273.0	8.3000	
> 2 to 3 miles	45625.0	12.0000	
> 3 to 4 miles	42564.0	7.3000	

Potential Contaminantion Factor: 79.0000

Documentation for Population Onsite Distance Category:

No residents are located on the approximate area of the landfill (Ref. 4, p. 23).

Reference: 4

Documentation for Population > 0 to 1/4 mile Distance Category:

1946 apartment residents are with 1/4 mile of the site (Ref. 4, p. 23).

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 AIR PATHWAY TARGETS Mobile Waste Controls - 06/30/94

Documentation for Population > 1/4 to 1/2 mile Distance Category:

According to TGEMS, 499 people live in the 1/4 to 1/2-mile target distance (Ref. 8).

Reference: 8

Documentation for Population > 1/2 to 1 mile Distance Category:

According to TGEMS, 8,994 people live in the 1/2 to 1-mile target radius (Ref. 8).

Reference: 8

Documentation for Population > 1 to 2 miles Distance Category:

According to TGEMS, 29,273 people live in the 1 to 2-mile target distance (Ref. 8).

Reference: 8

Documentation for Population > 2 to 3 miles Distance Category:

According to TGEMS, 45,625 people live in the 2 to 3-mile target distance (Ref. 8).

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 AIR PATHWAY TARGETS Mobile Waste Controls - 06/30/94

PAGE: 88

Documentation for Population > 3 to 4 miles Distance Category:

According to TGEMS, 42,564 people live in the 3 to 4-mile target distance.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 AIR PATHWAY TARGETS Mobile Waste Controls - 06/30/94

PAGE: 89

Nearest Individual Factor

Level of Contamination: Potential

Distance in miles: 0 to 1/8

Nearest Individual Value: 20

Documentation for Nearest Individual:

Residents are located within 1/8 mile of the site and receives a nearest individual score 20 (Ref. 5, p. 26).

Reference: 1,5

Resources

Resource Use: YES

Resource Value: 5

Documentation for Resources:

Beverly Hills Park (i.e., a major or designated recreation area) is 0.2 miles southeast of the site (Ref. 5, p. 27).

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 AIR PATHWAY TARGETS Mobile Waste Controls - 06/30/94

Actual Contamination, Sensitive Environments

Sensitive Environment	Distance (miles)	Sensitive Environment Value
- N/A and/or data not	specified	
Actual Contamination, W	Wetlands	
·	Wetlands Wetland	Wetland
Actual Contamination, W Distance Category		Wetland Acreage Value
Distance	Wetland Acreage	
Distance Category	Wetland Acreage	
Distance Category	Wetland Acreage	

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 AIR PATHWAY TARGETS Mobile Waste Controls - 06/30/94

PAGE: 91

Potential Contamination, Sensitive Environments

Sensitive Environment	Distance (miles)	Sensitive Environment Value	Distance Weight	Weighted Value/10
Houston Toad	3.900	75	0.0014	0.011
Smooth Green Snake	3.900	75	0.0014	0.011
Texas Windmill Gras	3.900	75	0.0014	0.011
H. Machaeranthera	3.900	75	0.0014	0.011
Sum of Sensitive Environ	ments Weighted	Values/10:		0.042

Potential Contamination, Wetlands

Distance	Wetland	Wetland	Distance	Weighted
Category	Acreage	Acreage Value	Weight	Value/10
- N/A and/or data no	t specified			

Sensitive Environment Potential Contamination Factor: 0.042

Documentation for Sensitive Environment Houston Toad:

The Houston Toad is both a state and federally endangered species. The toad has been located within a 4-mile radius, but not in large numbers since the 1970's (Ref. 9).

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 AIR PATHWAY TARGETS Mobile Waste Controls - 06/30/94

Documentation for Sensitive Environment Smooth Green Snake:

The Smooth Green Snake is on the Texas Endangered Species list and possibly located within a 4-mile radius of the site (Ref. 9).

Reference: 9

Documentation for Sensitive Environment Texas Windmill Gras:

Texas Windmill Grass, a federal catergory 2 grass, is located within a 4-mile radius of the site (Ref. 9).

Reference: 9

Documentation for Sensitive Environment H. Machaeranthera:

Houston Machaeranthera Grass, a federal catergory 2 grass, is located within a 4-mile radius of the site (Ref. 9).

93

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 REFERENCES Mobile Waste Controls - 06/30/94

- 1. U.S. Environmental Protection Agency. Final Rule Hazard Ranking System. FR-51531-51667. December 14, 1990.
- 2. U.S. Environmental Protection Agency. PREscore Software: User's Manual and Tutorial. Version 1.2, EPA/540/R-92/005. September 1991.
- 3. Superfund Chemical Data Matrix. Appendices B-1, B-2, and C. October 1992.
- 4. Seils, Allan M. Preliminary Assessment Report for Mobile Waste Controls, Incorporated Site. December 19, 1991.
- 5. Screening Site Inspection Report, Part 1 for Mobile Waste Controls, Incorporated Site. December 1992.
- 6. Screening Site Inspection Report, Part 2 for Mobile Waste Controls, Incorporated Site. April 1993.

PRESCORE DOCUMENTATION LOG SHEET

SITE:

MOBILE WASTE CONTROLS

IDENTIFICATION NUMBER:

TXD988051652

CITY:

HOUSTON

STATE:

TEXAS

REFERENCE NUMBER	DESCRIPTION OF THE REFERENCE
1	U.S. Environmental Protection Agency. Final Rule Hazard Ranking System. FR-51431-51667. December 14, 1990.
2	U.S. Environmental Protection Agency. PREscore Software: User's Manual and Tutorial. Version 1.0, EPA/540/R-92/005. September 1991.
3	Superfund Chemical Data Matrix. Appendices B-1, B-2 and C. October 1992.
4	Seils, Allan M. Preliminary Assessment Report for Mobile Waste Controls, Incorporated Site. Prepared by the Texas Water Commission (TWC) for the U.S. Environmental Protection Agency. December 19, 1991.
5	Screening Site Inspection Report, Part 1 for Mobile Waste Controls, Incorporated Site. Prepared by the Texas Water Commission (TWC) for the U.S. Environmental Protection Agency. December 1992.
6	Screening Site Inspection Report, Part 2 for Mobile Waste Controls, Incorporated Site. Prepared by the Texas Water Commission (TWC) for the U.S. Environmental Protection Agency. December 1992.
7	Letter. HRS Net Precipitation Values. From: Andrew M. Platt, Group Leader, MITRE Corporation. To: Lucy Sibold, U.S. Environmental Protection Agency. May 26, 1988.
8	U.S. Environmental Protection Agency, Geographical Exposure Modeling Systems (TGEMS) Database, compiled from the U.S. Census Bureau 1990 data accessed by Angela K. Jones. November 10, 1993.

^{• 1994} Ecology and Environment, Inc.

REFERENCE NUMBER	DESCRIPTION OF THE REFERENCE
9	Record of Communication. Endangered Species at Mobile Waste Site. To: Shannon Breslin, Texas Parks and Wildlife. From: Carolyn Kelly, Engineering Science, Inc. December 10, 1992.
10	U.S. Department of the Interior U.S. Geological Survey. Dana I. Barbei, Mark C. Kasmarek, and Al Campodonico. Approximate Water-Level Changes in Wells Completed in the Chicot and Evangelina Aquifers, 1977-91 and 1990-91, and Measured Compaction, 1973-90, in the Houston-Galveston Region, Texas. U.S. Geological Survey Open-File Report 91-94.
11	Record of Communication. Water Wells within a 4-Mile Radius of Mobile Waste Controls. To: Vicki Harting, Ecology & Environment, Inc. From: Rudy Hodge, City of Houston Water Production. May 17, 1994.
12	U.S. Department of Agriculture Soil Conservation Service. Soil Survey of Harris County, Texas.
13	Texas Water Development Board. Ground-Water Data for Harris county, Texas. Volume I. Drillers' Logs of Wells, 1905-71.
14	Texas Department of Water Resources. Report 289. Digital Models for Simulation of Ground-Water Hydrology of the Chicot and Evangeline aquifers Along the Gulf of Coast of Texas. May 1985.
15	Record of Communication. Hobby Stand-by Well Aquifer. To: Rudy Hodge, City of Houston Water Production. From: Vicki Harting, Ecology & Environment, Inc. June 24, 1994.